

Supplementary Material

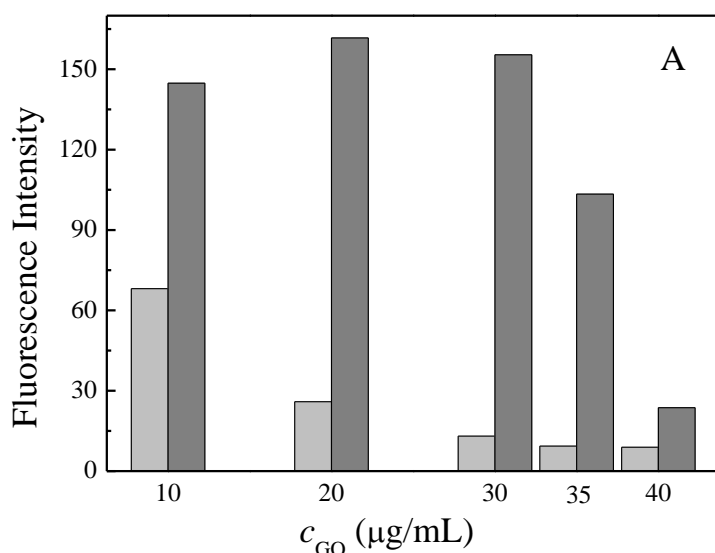
Sensitive detection of prion protein through long range resonance energy transfer between graphene oxide and molecular aptamer beacon

Hong Lin Zhuang,^a Shu Jun Zhen,^a Jian Wang,^b Cheng Zhi Huang^{a,b*}

^a College of Chemistry and Chemical Engineering, ^b and College of Pharmaceutical Sciences, Education Ministry Key Laboratory on Luminescence and Real-Time Analysis, Southwest University, Chongqing, 400715, China

*corresponding author: Tel: +86 23 68254659; fax: +86 23 68866796.

E-mail address: chengzhi@swu.edu.cn (C.Z. Huang).



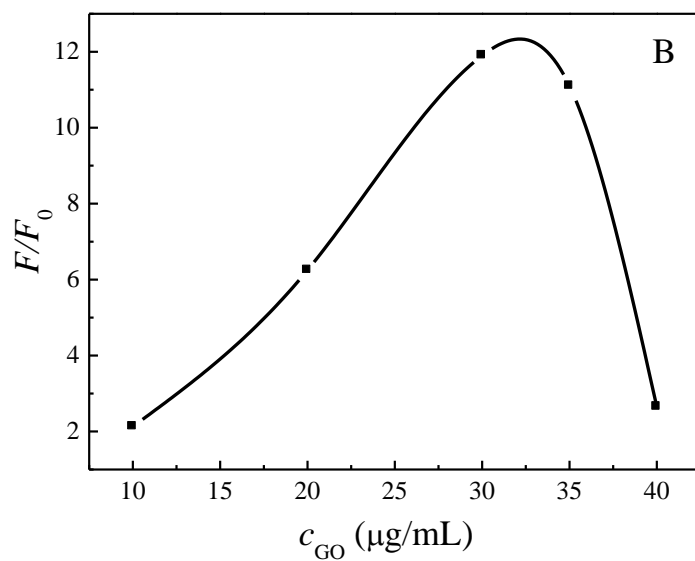


Figure S1. Effect of GO concentration on the fluorescence intensity of MAB in the absence (A, light gray) and in the presence of $20.5 \mu\text{g/mL PrP}^C$ (A, dark gray). Fluorescence enhancement (F/F_0) of MAB by using $20.5 \mu\text{g/mL PrP}^C$ as a function of GO concentration (B). Experimental conditions: MAB 50 nM . Excitation: 525 nm .